

## IN THE UNITED STATES PATENT AND TRADEMARK OFFICE

In re Application of: )  
TAKEAKI ITSUJI, ET AL. ) Examiner: Unassigned  
Application No.: 10/596,825 ) Group Art Unit: Unassigned  
Filed: June 26, 2006 )  
For: SENSOR FOR ANALYZING OR :  
IDENTIFYING PROPERTY OF )  
OBJECT, SENSING APPARATUS :  
USING SAME, AND SENSING )  
METHOD : June 30, 2006

**Mail Stop Amendment**  
Commissioner for Patents  
P.O. Box 1450  
Alexandria, VA 22313-1450

INFORMATION DISCLOSURE STATEMENT

Sir:

In compliance with the duty of disclosure under 37 C.F.R. § 1.56 and in accordance with the practice under 37 C.F.R. §§ 1.97 and 1.98, the Examiner's attention is directed to the documents listed on the enclosed Form PTO-1449. Copies of the listed documents, other than U.S. patent documents, are also enclosed.

REMARKS

The following documents were cited in an International Search Report of the international application (PCT/JP2005/020050) corresponding to the subject application:

- (1) US 2002/0068018 A1;
- (2) US 2004/0058339 A1;
- (3) Nagel, et al., "Three dimensional polymer...";

- (4) JP-A 2001-074647 & Patent Abstracts of Japan;
- (5) DE 102 57 225 B3;
- (6) US 6,573,737 B1;
- (7) Torosyan, et al. "Application of narrowband...";
- (8) Nagel, et al., "Integrated Planar...";
- (9) Nagel, et al., "A functionalized THz sensor...";
- (10) Stewning, et al., "A new class of improved-efficiency..."; and
- (11) Baras, et al., "On-chip THz detection...".

The International Search Report is dated December 22, 2005. A copy of the International Search Report was filed in this application on June 26, 2006.

Documents (1), (2) (3), and (4) were cited in a Written Opinion of the international application corresponding to the subject application. The Written Opinion is dated December 22, 2005. A copy of the Written Opinion was filed in this application on June 26, 2006.

Applicants respectfully submit that U.S. Patent No. 6,777,244 B2 corresponds to Document (1).

#### FORMAL MATTERS

No fee is believed due; however, if any fee is due, it should be charged to Deposit Account No. 06-1205.

#### CONCLUSION

It is respectfully requested that the above information be considered by the Examiner and that a copy of the enclosed Form PTO-1449 be returned indicating that such information has been considered.

Applicants' undersigned attorney may be reached in our Washington D.C. office by telephone at (202) 530-1010. All correspondence should continue to be directed to our address given below.

Respectfully submitted,

/Daniel S. Glueck/  
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DSG/tmm

FORM PTO 1449 ( <i>modified</i> )  U.S. DEPARTMENT OF COMMERCE PATENT AND TRADEMARK OFFICE  LIST OF REFERENCES CITED BY APPLICANT(S) (Use several sheets if necessary)			ATTY DOCKET NO. <b>03500.119202</b>	APPLICATION NO. <b>10/596,825</b>			
			APPLICANT <b>TAKEAKI ITSUJI, ET AL.</b>				
Date Submitted: June 30, 2006			FILING DATE <b>June 26, 2006</b>	GROUP <b>Unassigned</b>			
U.S. PATENT DOCUMENTS							
*EXAMINER INITIAL		DOCUMENT NUMBER	DATE	NAME	CLASS	SUBCLASS	FILING DATE IF APPROPRIATE
		<b>2002/068018 A1</b>	<b>06/06/2002</b>	<b>Pepper, et al.</b>	<b>422</b>	<b>82.05</b>	
		<b>2004/058339 A1</b>	<b>03/25/2004</b>	<b>Nagel, et al.</b>	<b>435</b>	<b>6</b>	
		<b>6,573,737 B1</b>	<b>06/03/2003</b>	<b>Lyon, et al.</b>	<b>324</b>	<b>753</b>	
		<b>6,777,244 B2</b>	<b>08/17/2004</b>	<b>Pepper, et al.</b>	<b>436</b>	<b>165</b>	
FOREIGN PATENT DOCUMENTS							
		DOCUMENT NUMBER	DATE	COUNTRY	CLASS	SUBCLASS	TRANSLATION YES/NO/ OR ABSTRACT
		<b>2001-074647 A</b>	<b>03/23/2001</b>	<b>Japan</b>			<b>See A below</b>
		<b>DE 102 57 225</b>	<b>04/08/2004</b>	<b>Germany</b>			<b>No</b>
OTHER DOCUMENT(S) (Including Author, Title, Date, Pertinent Pages, Etc.)							
		<b>Nagel, et al., "Three-Dimensional Polymer/Metal-Based Resonators for THz-Biosensing," Infrared and Millimeter Waves, 2004 and 12<sup>th</sup> International Conference on Terahertz Electronics, 2004, Conference Digest of The 2004 Joint 29<sup>th</sup> International Conference, pp. 819-820 (September 27, 2004).</b>					
		<b>Nagel, et al., "Integrated Planar Terahertz Resonators for Femtomolar Sensitivity Label-Free Detection DNA Hybridization," Applied Optics, OSA, Optical Society of America, Vol. 41, No. 10, pp. 2074-2078 (April 1, 2002).</b>					
		<b>Baras, et al., "On-Chip THz Detection of Biomaterials: A Numerical Study," Journal of Biological Physics, Vol. 29, No. 2-3, pp. 187-194 (2003).</b>					
		<b>Stewning, et al., "A New Class of Improved-Efficiency THz Filters for On-Chip Detection of Biomaterials," Microwave and Optical Technology Letters, Wiley USA, Vol. 41, No. 2, pp. 79-82 (April 20, 2004).</b>					
		<b>Nagel, et al., "A Functionalized THz Sensor for Marker-Free DNA Analysis," Physics in Medicine and Biology IOP Publishing UK, Vol. 48, No. 2, pp. 3625-3636 (November 21, 2003).</b>					
		<b>Torosyan, et al., "Application of Narrowband Tunable THz-Radiation for Biomedical Sensing," Annual Meeting of the IEEE Laser &amp; Electro-Optics Society, Vol. 1 of 2, pp. 343-344 (November 11, 2002).</b>					
A		<b>Patent Abstracts of Japan, Vol. 2000, No. 20, July 10, 2001 (JP-A 2001-074647, March 23, 2001).</b>					
		<b>December 22, 2005 International Search Report in PCT/JP2005/020050</b>					
		<b>December 22, 2005 Written Opinion in PCT/JP2005/020050</b>					
EXAMINER			DATE CONSIDERED				

\*EXAMINER: Initial if reference considered, whether or not citation is in conformance with MPEP 609; Draw line through citation if not in conformance and not considered. Include copy of this form with next communication to applicant.

Sheet 1 of 1